

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Y. Murakawa : Art Unit:  
Serial No.: To Be Assigned : Examiner:  
Filed: Herewith :  
FOR: METHOD OF VIRTUAL PRIVATE :  
NETWORK COMMUNICATION IN :  
SECURITY GATEWAY APPARATUS AND :  
SECURITY GATEWAY APPARATUS :  
USING THE SAME

## PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

SIR:

Prior to examination, please amend the above-identified application as follows.

IN THE CLAIMS:

Please amend the claims as follows:

1       4. (As Amended) The VPN communication method for the security  
2       gateway apparatus according to [any one of claims 1 through 3] claim 1, wherein  
3       an encryption key and an authentication key are exchanged with a public key  
4       cryptosystem during the IKE communication.

1       5. (As Amended) The VPN communication method for the security  
2       gateway apparatus according to [any one of claims 1 through 3] claim 1, wherein  
3       the DHCP communication option contains an IP address and a subnet mask.

1        9. (As Amended) The security gateway apparatus according to [any one of  
2 claims 6 through 8] claim 6, wherein an encryption key and an authentication key  
3 are exchanged with a public key cryptosystem during the IKE communication.

1        10. (As Amended) The security gateway apparatus according to [any one of  
2 claims 6 through 8] claim 6, wherein the DHCP communication option contains an  
3 IP address and a subnet mask.

1        11. (Newly Added) The VPN communication method for the security  
2 gateway apparatus according to claim 2, wherein an encryption key and an  
3 authentication key are exchanged with a public key cryptosystem during the IKE  
4 communication.

1        12. (Newly Added) The VPN communication method for the security  
2 gateway apparatus according to claim 3, wherein an encryption key and an  
3 authentication key are exchanged with a public key cryptosystem during the IKE  
4 communication.

1        13. (Newly Added) The VPN communication method for the security  
2 gateway apparatus according to claim 2, wherein the DHCP communication option  
3 contains an IP address and a subnet mask.

1        14. (Newly Added) The VPN communication method for the security  
2 gateway apparatus according to claim 2, wherein the DHCP communication option  
3 contains an IP address and a subnet mask.

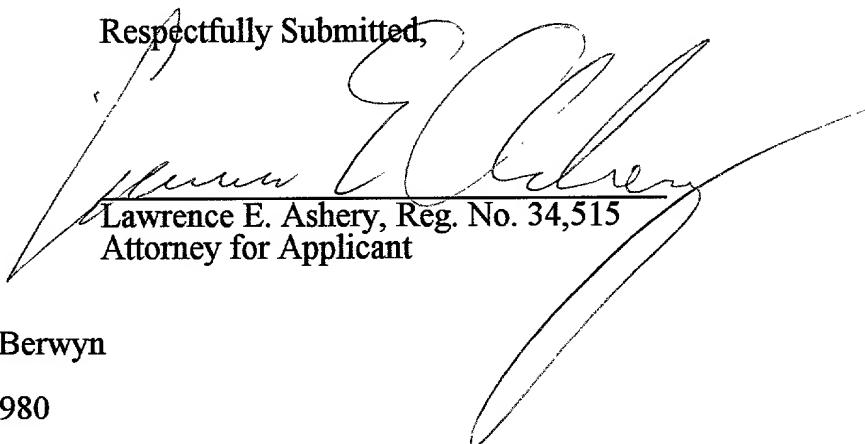
1        15. (Newly Added) The security gateway apparatus according to claim 7,  
2 wherein an encryption key and an authentication key are exchanged with a public  
3 key cryptosystem during the IKE communication.

1        16. (Newly Added) The security gateway apparatus according to claim 8,  
2        wherein an encryption key and an authentication key are exchanged with a public  
3        key cryptosystem during the IKE communication.

1        17. (Newly Added) The security gateway apparatus according to claim 7,  
2        wherein the DHCP communication option contains an IP address and a subnet  
3        mask.

1        18. (Newly Added) The security gateway apparatus according to claim 8,  
2        wherein the DHCP communication option contains an IP address and a subnet  
3        mask.

Respectfully Submitted,

  
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Attorney for Applicant

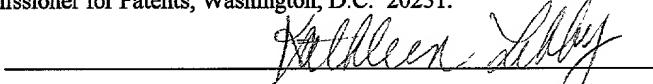
Dated: December 1, 2000  
Suite 301, One Westlakes, Berwyn  
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Kathleen Libby